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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/029,403	12/20/2001	Ernst-Ulrich Simon	2000P80205 US	2081

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EXAMINER

THOMPSON, GREGORY D

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 08.12.2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action SummaryApplication No.
10/029,403Applicant(s)
SimonExaminer
Gregory ThompsonArt Unit
2835**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --****Period for Reply**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Dec 20, 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-20 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All b) ☐ Some* c) ☐ None of:

1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

a) ☐ The translation of the foreign language provisional application has been received.

- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 6) <input type="checkbox"/> Other |

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1. All German references considered insofar as understood from the drawings since no translation filed.

2. Claims 17-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 17-18 are not understood for no semiconductor chip shown as required under 37CFR 1.83(a).

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 16-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by

Goodrich.

The diodes would be integrated into a chip insofar as understood from claim 17 and the chip would inherently have to have electrical connections such as known contact pads electrically connected to the contact pads on substrate by known wires which would be attached by the known soldering process to provide the electrical connections. The encapsulation would be the PVC material 1.

4. Claims 11, 16-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by German '942.

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over German

'459 in view of Goodrich.

Considered obvious that the board 4 in German '459 could be flexible as taught by

Goodrich to provide ease in mounting and electrical interconnection of the diodes. The diodes *would be integrated* into a chip insofar as understood from claim 17 and they would inherently have to have electrical connections such as known contact pads electrically connected to the contact pads on the substrate by known wires which would be attached by the known soldering process to provide the electrical connections.

6. Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hochstein in view of Goodrich.

Hochstein discloses a board 26 with tracks, pads, lines and the like known in board *features* adhesively mounted to a mounting board heat sink 36 or 36a by sink 36 or 36a by thermally conductive adhesive *SP*. Goodrich discloses light-emitting diodes on a flexible substrate.

Therefore, considered obvious that board 26 could be a flexible board as taught by Goodrich to provide ease in mounting and electrical connection for the diodes.

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The diodes are considered a chip insofar as understood from claim 17 and the chip would inherently have to have electrical connections such as known pads electrically connected to the contact pads on substrate 26 by known wires which would be attached by the known soldering process to provide the electrical connections.

The encapsulate would be the material usually plastic that surrounds the circuitry of the diodes just like a semiconductor chip or integrate circuit would have for protection. The plastic is labeled in figure 6.

7. Claims 11-14, 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masami et al in view of Goodrich.

Masami discloses diodes mounted on a board 2 with the board mounted on mounting board heat sink 4. The board 2 would inherently have to have pads, lines or the like in electrical contact with tracks or the like on board 2 to electrically interconnect the diodes. The diodes are considered chips insofar as understood from claim 17. The encapsulate is 6. Goodrich discloses a flexible board with diodes thereon. Therefore considered obvious that the board 2 in Masami could be flexible as taught by Goodrich to provide ease in mounting to sink 4 and electrical connection.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mass et al discloses diodes on board mounted to a sink.

9. Any inquiry concerning this communication should be directed to Greg Thompson at telephone number 308-2249.

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Thompson/ek

08/05/02

Thompson